-L23 -ANSWER 4 OF 4 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1996:294877 CAPLUS

DOCUMENT NUMBER: 124:343341

TITLE: Preparation of cyclic polyamines as antiviral agents

INVENTOR(S): Iwata, Masaaki; Yamamoto, Naoki; Nakajima, Hideki

PATENT ASSIGNEE(S): Rikagaku Kenkyusho, Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 35 pp.

CODEN: JKXXAF

DOCUMENT TYPE:

Patent Japanese

LANGUAGE: Japa FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO. KÍND DATE APPLICATION NO. DATE

JP 08027129 A2 19960130 JP 1994-165028 19940718

GΙ

- * STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY AVAILABLE VIA OFFLINE PRINT *
- AB Cyclic polyazaalkanes, in which 3-20 C2, C3, or C4 alkylene chains and NH are alternately linked, are prepd. Thus, the title compd. (I.8HBr) was prepd. by condensation of 1,5,9-triazacyclododecane deriv. (III; Ts = p-toluenesulfonyl) with 1,3-dibromopropane in the presence of NaHCO3 at 70.degree. for 4 days followed by detosylation. I.8HBr and another title compd. (II.20HBr) showed ED50 of 2.5 and 0.67 .mu.M for inhibiting the death of HIV-infected MT-4 cells (vs. 0.019 .mu.M for AZT) and 50% cytotoxic concn. of 470 and 8.6 .mu.M, resp., against MT-4 cells (vs. 247.25 .mu.M).
- IT 164913-15-9P 164913-31-9P 164913-40-0P
 - 167080-92-4P 167080-93-5P 167080-99-1P
 - 176493-19-9P 176493-21-3P 176493-22-4P
 - 176493-23-5P 176493-25-7P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(prepn. of cyclic polyazaalkanes as antiviral agents)

- RN 164913-15-9 CAPLUS
- CN 1,5,9-Triazacyclododecane, 1,5-bis[(4-methylphenyl)sulfonyl]-9-(phenylmethyl)- (9CI) (CA INDEX NAME)

RN 164913-40-0 CAPLUS
CN 1,5,9-Triazacyclododecane, 1-(3-bromopropyl)-5,9-bis[(4-methylphenyl)sulfonyl]- (9CI) (CA INDEX NAME)

RN 167080-92-4 CAPLUS
CN 1,5,9,13,17-Pentaazacycloheneicosane, 9-[3-[5,9-bis[(4-methylphenyl)sulfonyl]-1,5,9-triazacyclododec-1-yl]propyl]-1,5,13,17-tetrakis[(4-methylphenyl)sulfonyl]- (9CI) (CA INDEX NAME)

PAGE 1-A

RN 167080-93-5 CAPLUS
CN 1,5,9-Triazacyclododecane, 1,1'-(1,3-propanediyl)bis[5,9-bis[(4-methylphenyl)sulfonyl]- (9CI) (CA INDEX NAME)

PAGE 1-A

(

RN 167080-99-1 CAPLUS
CN 5,9-Diaza-1-azoniacyclododecane, 1,1-bis[3-[5,9-bis[(4-methylphenyl)sulfonyl]-1,5,9-triazacyclododec-1-yl]propyl]-5,9-bis[(4-methylphenyl)sulfonyl]-, bromide (9CI) (CA INDEX NAME)

PAGE 1-A

• Br-

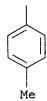
RN 176493-19-9 CAPLUS
CN 1,5,9,13,17,21,25-Heptaazacyclooctacosane, 13-[3-[5,9-bis[(4-methylphenyl)sulfonyl]-1,5,9-triazacyclododec-1-yl]propyl]-1,5,9,17,21,25-hexakis[(4-methylphenyl)sulfonyl]- (9CI) (CA INDEX NAME)

.PAGE.2-A

RN 176493-21-3 CAPLUS
CN 1,4,7,11-Tetraazacyclotetradecane, 4,11-bis[3-[5,9-bis[(4-methylphenyl)sulfonyl]-1,5,9-triazacyclododec-1-yl]propyl]-1,7-bis[(4-methylphenyl)sulfonyl]- (9CI) (CA INDEX NAME)

PAGE 1-A

PAGE 2-A



RN 176493-22-4 CAPLUS

CN 1,5,9,13-Tetraazacyclohexadecane, 1,9-bis[3-[5,9-bis[(4-methylphenyl)sulfonyl]-1,5,9-triazacyclododec=1-yl]propyl]-5,13-bis[(4-methylphenyl)sulfonyl]- (9CI) (CA INDEX NAME)

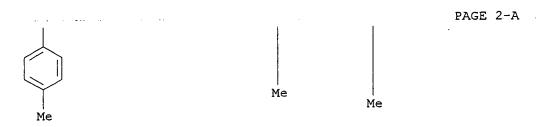
PAGE 1-A

PAGE 2-A

RN 176493-23-5 CAPLUS

CN 1,5,9,14,18,22-Hexaazacyclohexacosane, 5,18-bis[3-[5,9-bis[(4-methylphenyl)sulfonyl]-1,5,9-triazacyclododec-1-yl]propyl]-1,9,14,22-tetrakis[(4-methylphenyl)sulfonyl]- (9CI) (CA INDEX NAME)

PAGE 1-B



RN 176493-25-7 CAPLUS
CN 1,4,7-Triaza-11-azoniacyclotetradecane, 4,11,11-tris[3-[5,9-bis[(4-methylphenyl)sulfonyl]-1,5,9-triazacyclododec-1-yl]propyl]-1,7-bis[(4-methylphenyl)sulfonyl]-, bromide (9CI) (CA INDEX NAME)

PAGE 1-A

Me

O=S=O

N-(CH2)3-N

N+(CH2)3-N

O=S=O

Me

O=S=O

N

O=S=O

N

O=S=O

N

O=S=O

• Br-

This Page is Inserted by IFW Indexing and Scanning Operations and is not part of the Official Record

BEST AVAILABLE IMAGES

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images include but are not limited to the items checked:

/	
☐ BLACK BORDERS	
\Box image cut off at top, bottom or sides	
☐ FADED TEXT OR DRAWING	
☐ BLURRED OR ILLEGIBLE TEXT OR DRAWING	
☐ SKEWED/SLANTED IMAGES	
☐ COLOR OR BLACK AND WHITE PHOTOGRAPHS	
☐ GRAY SCALE DOCUMENTS	
☐ LINES OR MARKS ON ORIGINAL DOCUMENT	
☐, REFERENCE(S) OR EXHIBIT(S) SUBMITTED ARE POOR QUALITY	
Потиев.	

IMAGES ARE BEST AVAILABLE COPY.

As rescanning these documents will not correct the image problems checked, please do not report these problems to the IFW Image Problem Mailbox.